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May 21, 2004

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

**METHOD FOR CORRECTING THE EFFECTS OF INTERDETECTOR BAND BROADENING**

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| Application No.: | 10/665,903 |
| Inventor: | Steven P. Trainoff |
| Title: | Method for correcting the effects of interdetector band broadening |
| Date of filing: | September 18, 2003 |
| Assignee: | Wyatt Technology Corporation<br>P. O. Box 3003<br>Santa Barbara, CA 93130-3003 |
| Registered Agent: | Philip J. Wyatt, Reg. No. 32,449 |
| Attorney Docket No.: | WTC 0303 |

Pursuant to 37 CFR 1.97 (b) (3), the applicant herewith submits an information disclosure statement for the above referenced patent application. A close examination of the recent literature resulted in finding the referenced section of the textbook, *Handbook of Size Exclusion Chromatography and Related Techniques*, Marcel Dekker, New York, 2004. In the chapter by Barth and Jackson (pages 99 *et seq.*), the authors note the problems with interdetector band broadening at page 117 of their chapter. There they state

> "...This effect can be corrected by injecting a narrow MWD sample and measuring the variance of the peaks in each detector. Because the peak shape is nearly Gaussian, it should, ideally, be the same for all detectors. If it is not, the additional variance can be calculated for one of the detectors. In subsequent data analysis, the narrower peak can be digitally broadened using Gaussian band spreading to correct for this mismatch..."

There are several ways this comment differs from what is disclosed in the present application. First, Barth and Jackson explicitly assume that both the peak shapes and the interdetector broadening kernel is Gaussian so that it can be characterized by simply measuring the variance of the peaks. The application, on the other hand, shows on both theoretical and practical grounds that the broadening is *NOT* Gaussian and makes *no* assumption about the peak shapes,

so a more sophisticated analysis must be applied. Furthermore, the patent discloses an algorithm that may be used to determine the broadening parameters as well as the interdetector volume for any model.

Please feel free to call the undersigned should you have any comments or questions.

WYATT TECHNOLOGY CORPORATION

Philip J. Wyatt, Ph.D.
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Enclosure: Information Disclosure Statement by Applicant (PTO/SB/08B)
Photocopy of chapter being disclosed

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE


Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

Sheet 1 of 1

| *Complete if Known* | |
|---|---|
| **Application Number** | 10/665,903 |
| **Filing Date** | September 18, 2003 |
| **First Named Inventor** | Steven P. Trainoff |
| Art Unit | 2857 |
| Examiner Name | |
| Attorney Docket Number | WTC0303 |

## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No.[1] | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T[2] |
|---|---|---|---|
| | | C. JACKSON, H. G. BARTH, "Molecular Weight Sensitive Detectors for Size Exclusion Chromatography," Chapter 4, Handbook of Size Exclusion Chromatography and Related Techniques (2nd Edition), Ed. Chi-san Wu, 2004, pp 99-138, Marcel Dekker, New York. | |
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| Examiner Signature | | Date Considered | |
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/92 (05-03)
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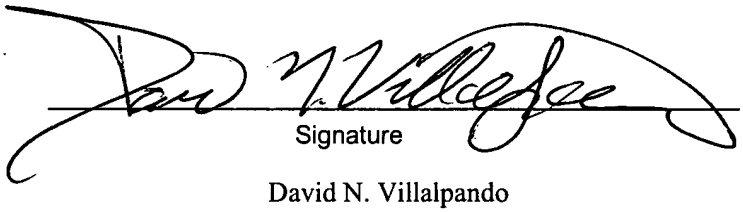

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